



## PATENT COOPERATION TREATY



# **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PL2 02018PCT	FOR FURTHER ACTION		ication of Transmittal of International Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (da)	/month/year)	Priority date (day/month/year)					
PCT/FR2003/001219	16 avril 2003 (16.0	4.2003)	17 avril 2002 (17.04.2002)					
International Patent Classification (IPC) or n C03C 17/34	ational classification and IPC							
Applicant	SAINT-GOBAIN GLA	SS-FRANCE	3					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>								
2. This REPORT consists of a total of sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications rela	ting to the following items:							
I Basis of the report								
II Priority								
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
Tools of inventors								
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documents of	pited							
VII Certain defects in th	VII Certain defects in the international application							
VIII Certain observations on the international application								
Date of submission of the demand	Date	Date of completion of this report						
02 septembre 2003 (02.0	9.2003)	17	August 2004 (17.08.2004)					
Name and mailing address of the IPEA/EP	Auth	Authorized officer						
Facsimile No.	Tele	phone No.						



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International application No.

# PCT/FR2003/001219

	regard to the elements of the international application:*						
	the international application as originally filed						
$\boxtimes$	the description:	1-111C1-4					
	pages 1-13	, as originally filed					
	pages	, filed with the demand					
	pages, filed with the letter	er of					
$\boxtimes$	the claims:						
	pages 1-26	, as originally filed					
	pages, as amended (t	together with any statement under Article 19					
	pages	, filed with the demand					
	pages, filed with the letter						
<b>X</b>	the-drawings:						
	pages 1/7-7/7						
	pages	, filed with the demand					
	pages, filed with the letter						
	he sequence listing part of the description:	as originally file					
	pages	, as originally file					
	pages, filed with the letter						
With prelin	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 or 55.3).  ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international application was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in international application as filed has been furnished.  The statement that the information recorded in computer readable form is identical to the written sequence listing been furnished.						
	The amendments have resulted in the cancellation of:  the description, pages the claims, Nos the drawings, sheets/fig  This report has been established as if (some of) the amendments had not been resulted in the cancellation of:						

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International application No. PCT/FR 03/01219

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	2, 3, 6-15, 17, 18, 20-24, 26	YES			
		Claims	1, 4, 5, 16, 19, 25	_ NO			
	Inventive step (IS)	Claims	2, 3, 6-15, 17, 18, 20-24, 26	_ YES			
		Claims	1, 4, 5, 16, 19, 25	_ NO			
	Industrial applicability (IA)	Claims	1-26	YES			

Citations and explanations

#### 1. Documents

Reference is made to the following documents:

Claims

- D1: EP-A-1 132 133 (NANOPOUDRES TECHNOLOGIES) 12 September 2001 (2001-09-12)
- D2: EP-A-0 882 686 (NIPPON SHEET GLASS CO LTD) 9
  December 1998 (1998-12-09)
- D3: WO 00 75087 A (HURST SIMON JAMES; PILKINGTON PLC (GB); AMMERLAAN JOHANNES ANDREAS) 14 December 2000 (2000-12-14)
- D4: US 2001/030808 A1 (KOMATSU TORU ET AL) 18
  October 2001 (2001-10-18)
- D5: WO 01 32578 A (SAINT-GOBAIN GLASS FRANCE;

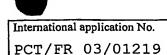
  DURANDEAU ANNE (FR); SIMONET MICHEL (FR) 10 May

  2001 (2001-05-10)

### 2. Subject matter of the application

Claims 1 to 23 define a substrate having, for example, a glass, polymer or ceramic coating in, for example, sheet or fibre form, provided with a first silicon-compound-based (oxide, oxycarbide, oxynitride, oxycarbonitride) hydrophilic layer and a second titanium oxide photocatalytic coating, said second coating having a discontinuous/permeable structure. Claims 24 to 26 define

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the use of such a coated substrate.

### 3. Novelty and inventive step

D1 (see paragraph [0029], claims) describes a fibrous fabric, coated with a first layer of silicon nanoparticles and a second mesoporous photocatalytic layer.

Consequently, D1 describes all the features of claims 1, 4, 5, 16, 19 and 25.

The subject matter of claims 1, 4, 5, 16, 19 and 25 is therefore not novel.

D1 does not deprive the subject matter of claims 2, 3, 6 to 15, 17, 18, 20 to 24 and 26 of novelty and inventive step.

D2 to D5 are not prejudicial to the novelty and inventive step of the subject matter of the claims.